

FIG. 1

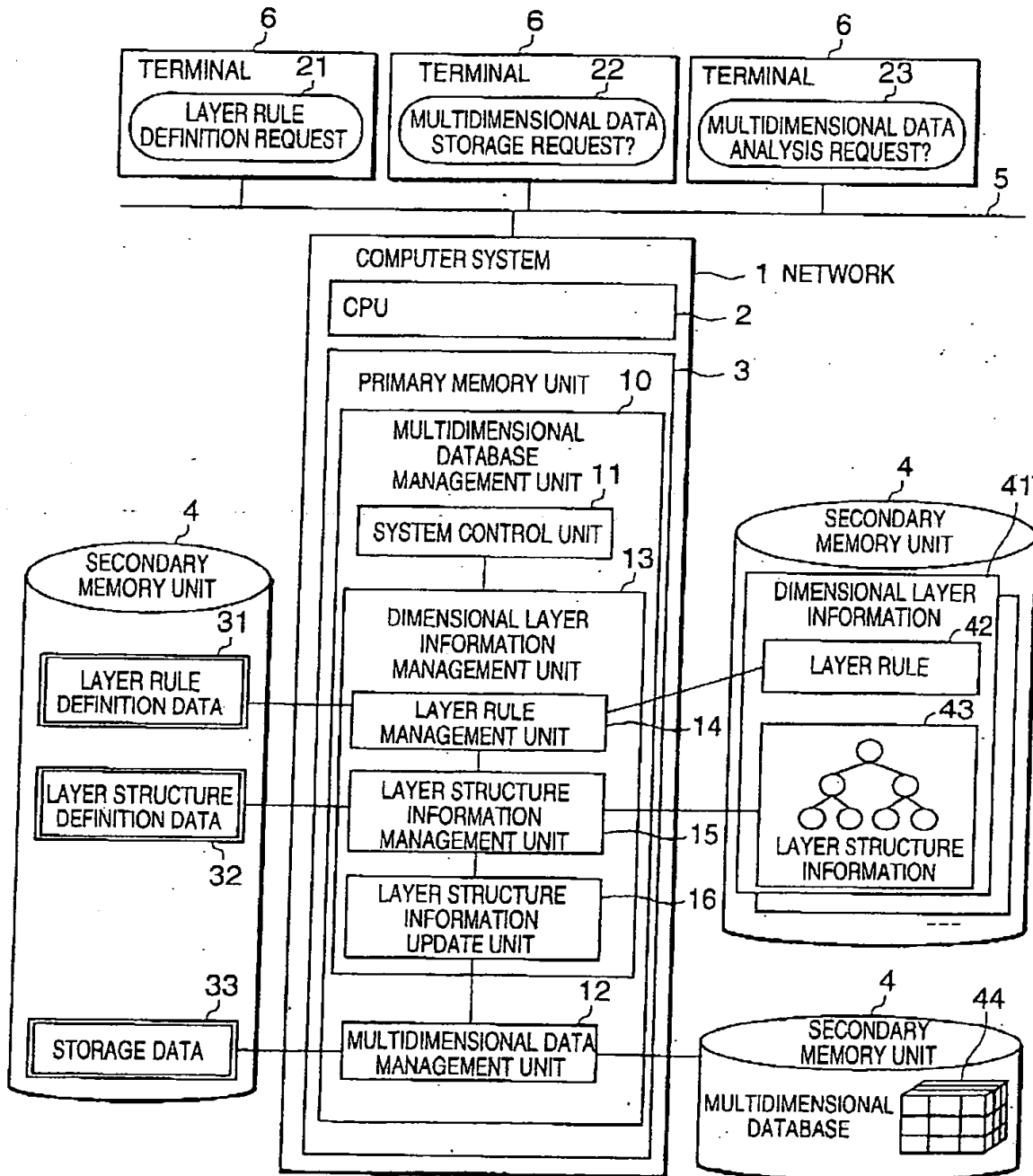


FIG. 2

FIG.2

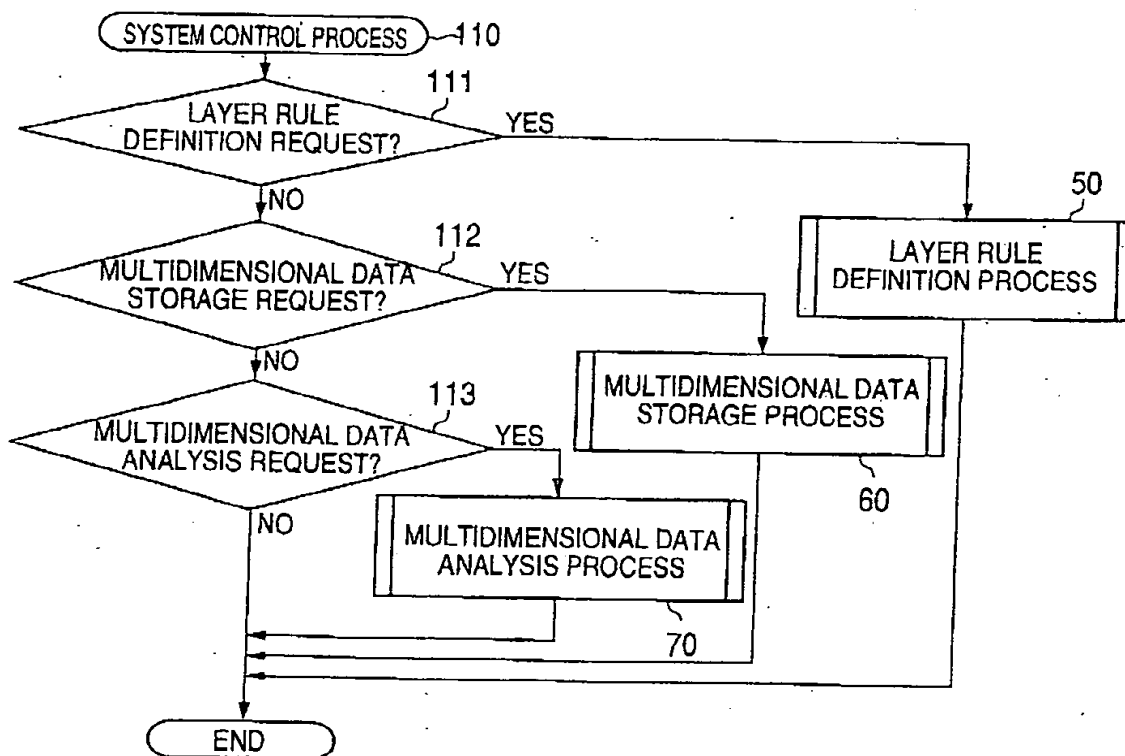


FIG.3

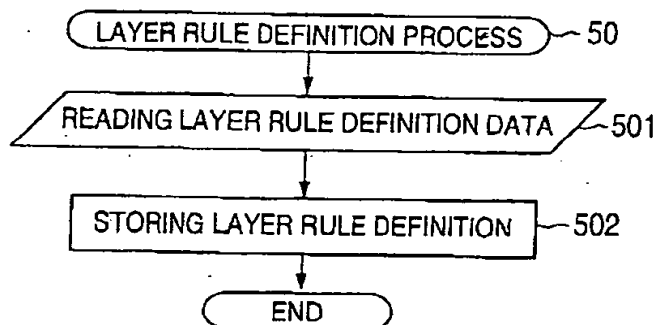


FIG.4

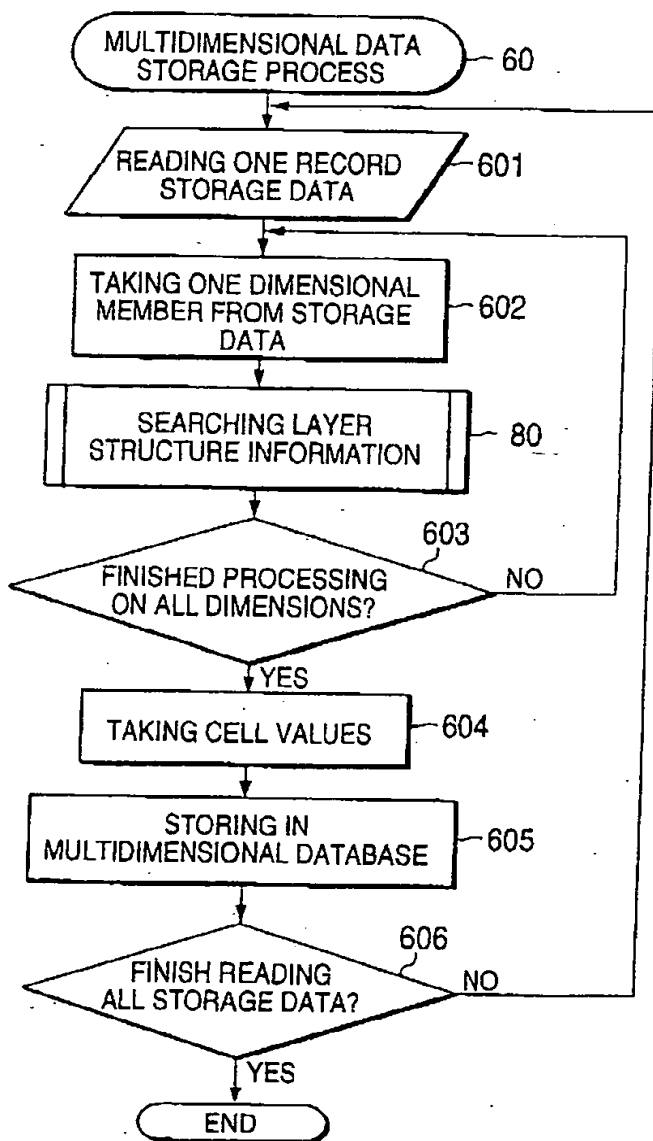


FIG.5

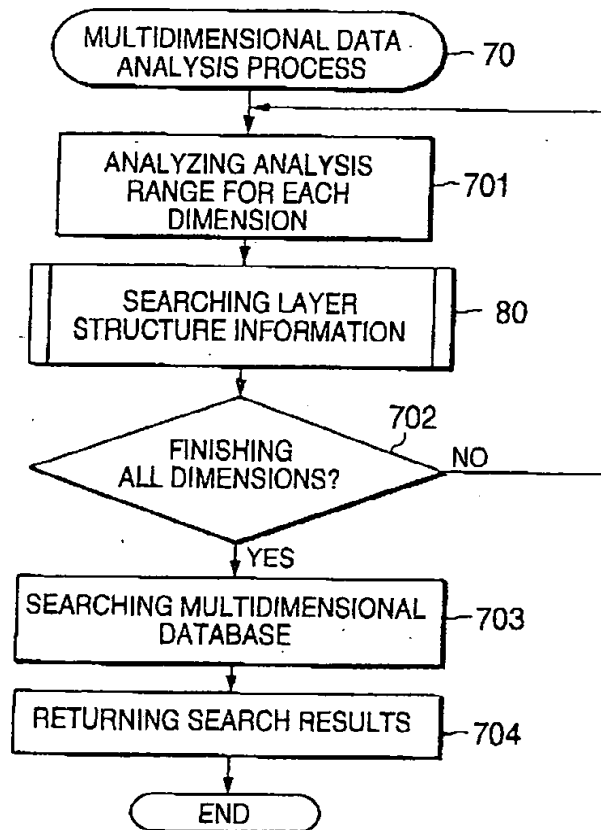


FIG.6

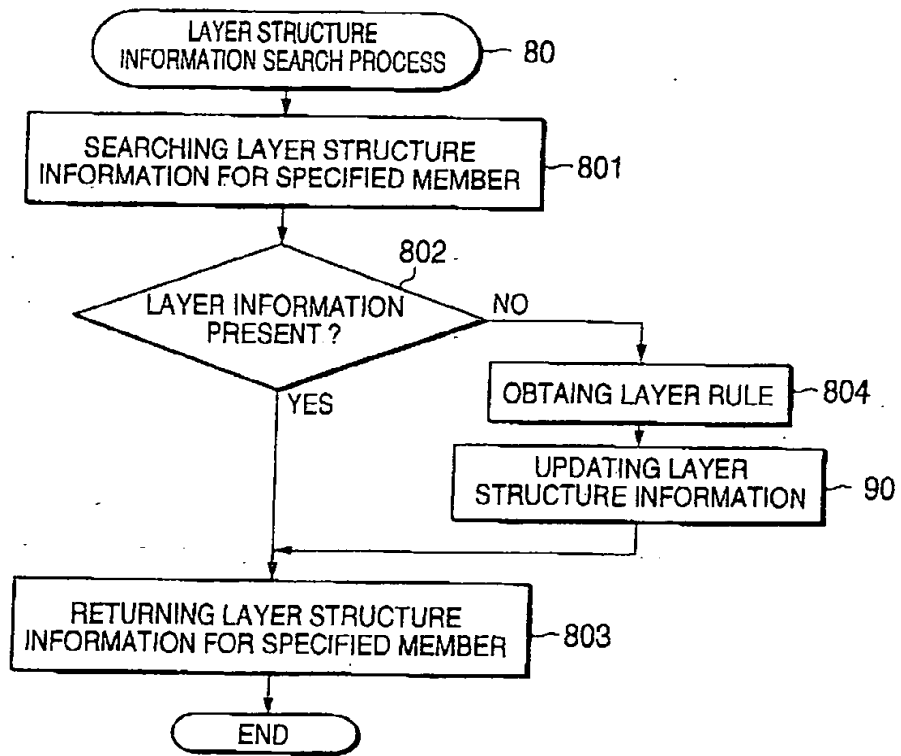


FIG.7

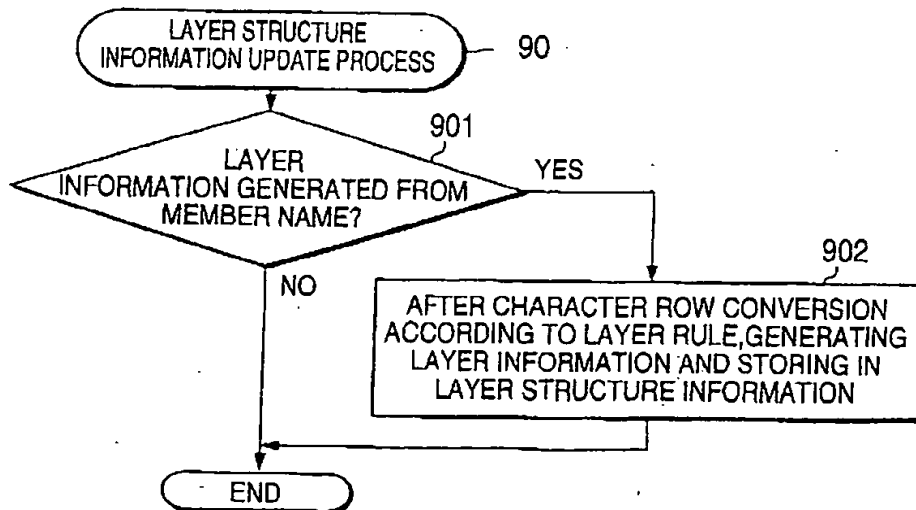


FIG.8

TIME DIMENSIONAL LAYER RULE DEFINITION DATA

3110

#LAYER RULE :

#AFTER CHARACTER ROW CONVERSION ON MEMBER, OBTAINING LAYER INFORMATION

FROM MEMBER NAME

LEVEL10= \$ MEMBER NAME

LEVEL11={

S/¥(.... ¥)0[123]/¥1Q1/

S/¥(.... ¥)0[456]/¥1Q2/

S/¥(.... ¥)0[789]/¥1Q3/

S/¥(.... ¥)1[012]/¥1Q4/

}

LEVEL12={

S/¥(.... ¥)..../¥1/

}

FIG.9

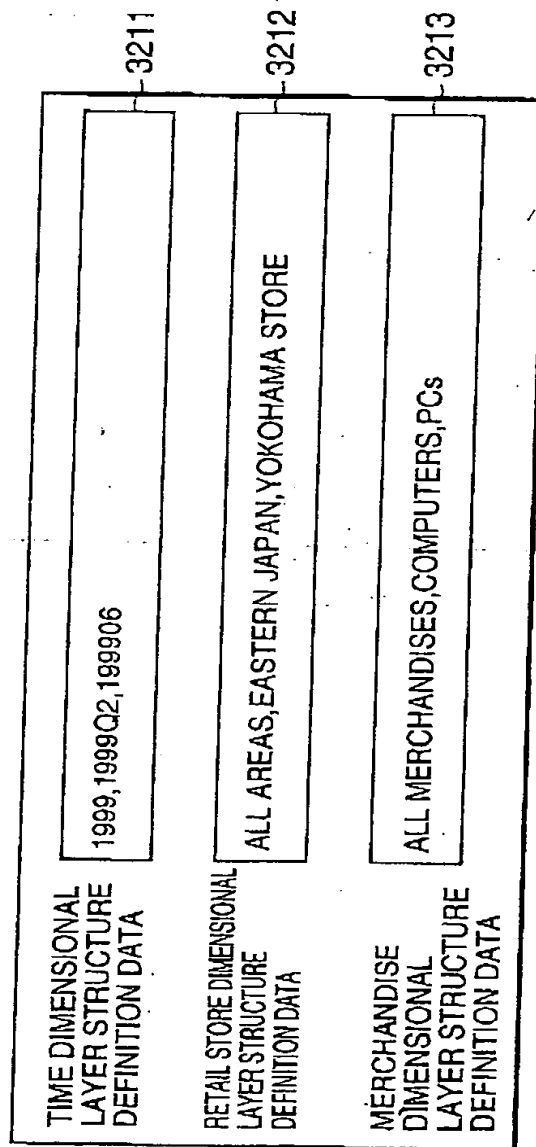


FIG. 10

FIG.10

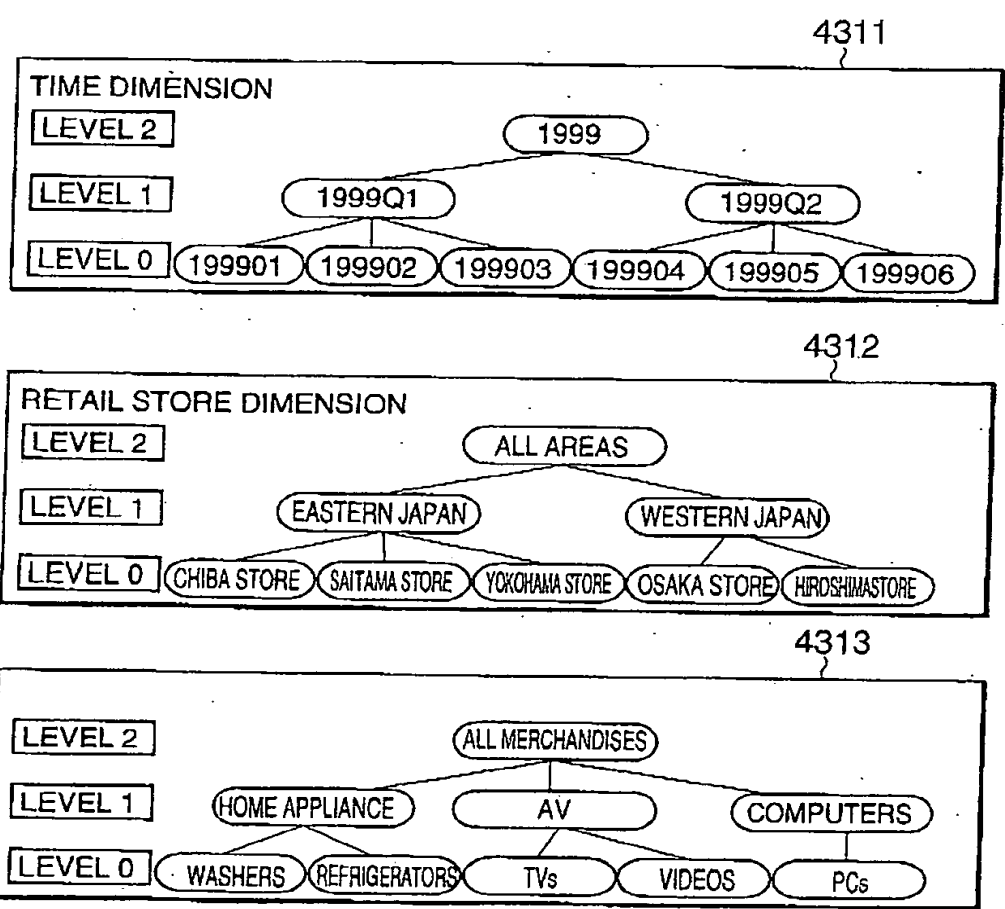


FIG.11

RETAIL STORE DIMENSIONAL LAYER RULE DEFINITION DATA

3120

#LAYER RULE :
#OBTAINING LAYER INFORMATION FROM CSV FORMATTED FILE
FROM FILE,CSV FILE
LEVEL0=COLUMN 3
LEVEL1=COLUMN 2
LEVEL2=COLUMN 1

FIG.12

3126

ALL AREAS,EASTERN JAPAN,CHIBA STORE
ALL AREAS,EASTERN JAPAN,SAITAMA STORE
ALL AREAS,EASTERN JAPAN,YOKOHAMA STORE
ALL AREAS,WESTERN JAPAN,OSAKA STORE
ALL AREAS,WESTERN JAPAN,HIROSHIMA STORE

FIG.13

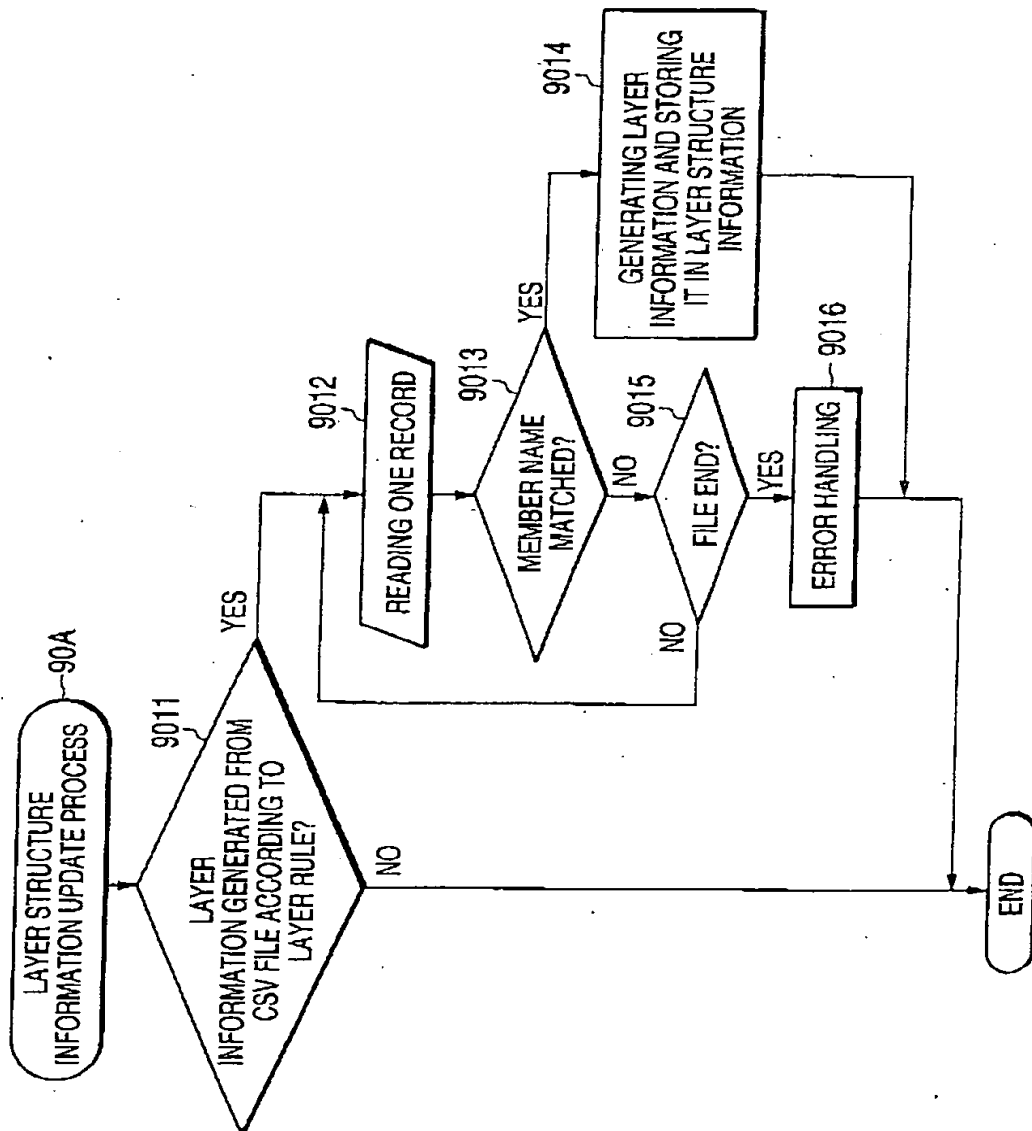


FIG.14

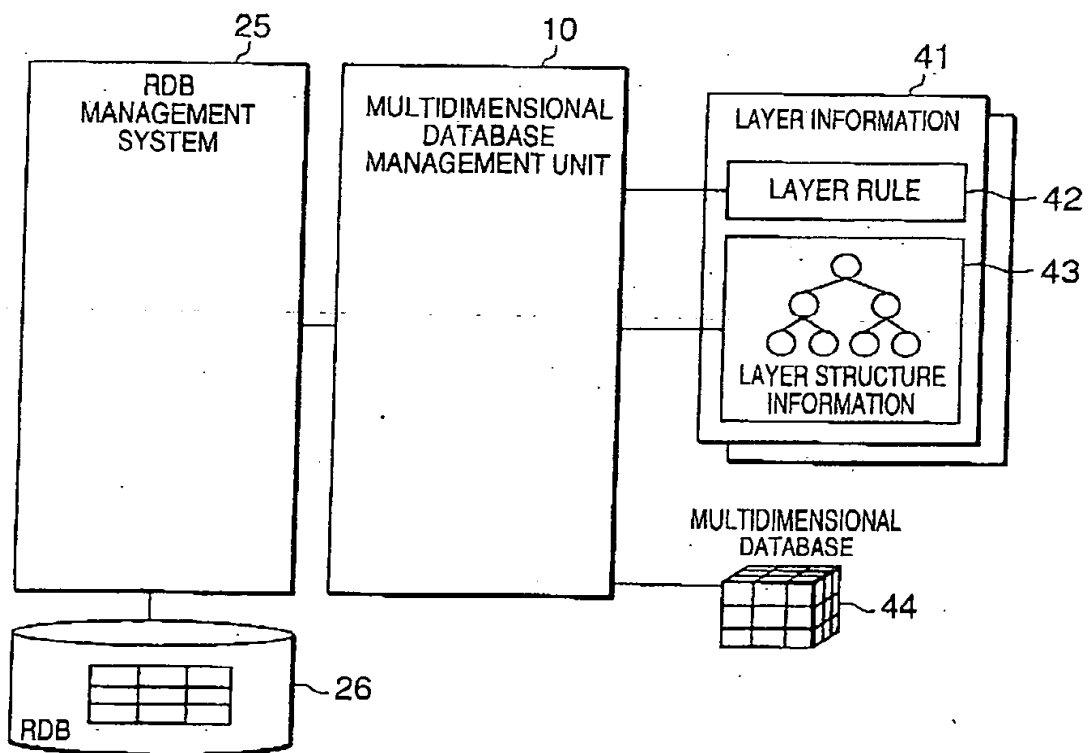


FIG.15

MERCHANDISE DIMENSIONAL LAYER RULE DEFINITION DATA

3130

#LAYER RULE : RDB PRODUCT MASTER LIST
 #OBTAINING FROM COL1,COL2
 FROM RDB PRODUCT MASTER LIST
 LEVEL 0=SMALL CLASSIFICATION
 LEVEL 1=LARGE CLASSIFICATION
 LEVEL 2="ALL MERCHANDISE"

FIG.16

CONTENT OF RDB PRODUCT MASTER TABLE

LARGE CLASSIFICATION	SMALL CLASSIFICATION
HOME APPLIANCE	WASHERS
HOME APPLIANCE	REFRIGERATORS
AV	TVs
AV	VIDEOS
COMPUTERS	<u>PCs</u>

10015429-121301
FIG. 17

FIG.17

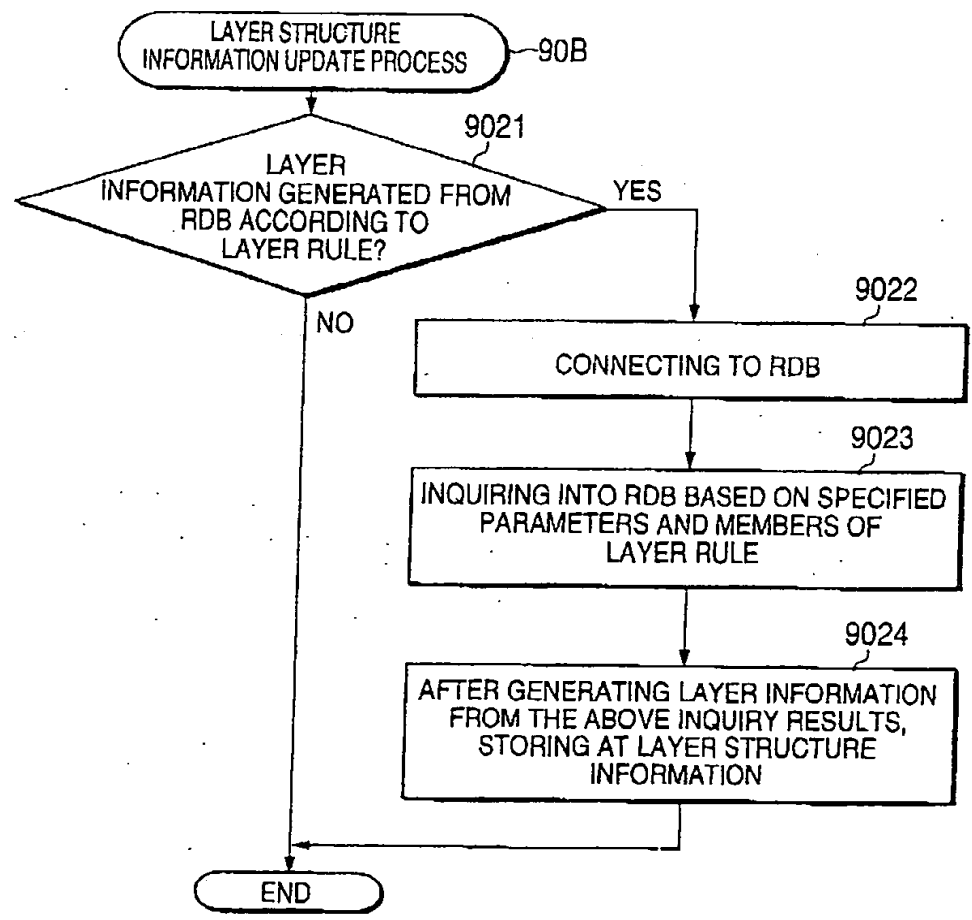


FIG.18

4310

TIME DIMENSION
(WITHOUT LAYER STRUCTURE INFORMATION)

4302

RETAIL STORE DIMENSION

LEVEL 2

ALL AREAS

LEVEL 1

EASTERN JAPAN

WESTERN JAPAN

LEVEL 0

CHIBA STORE

SAITAMA STORE

OSAKA STORE

HIROSHIMASTORE

4303

LEVEL 2

ALL MERCHANDISES

LEVEL 1

HOME APPLIANCE

AV

LEVEL 0

WASHERS

REFRIGERATORS

TVs

VIDEOS

4304

UNIT DIMENSION(WITHOUT LAYER)

LEVEL 0

SALES UNIT

SALES AMOUNT

FIG. 19

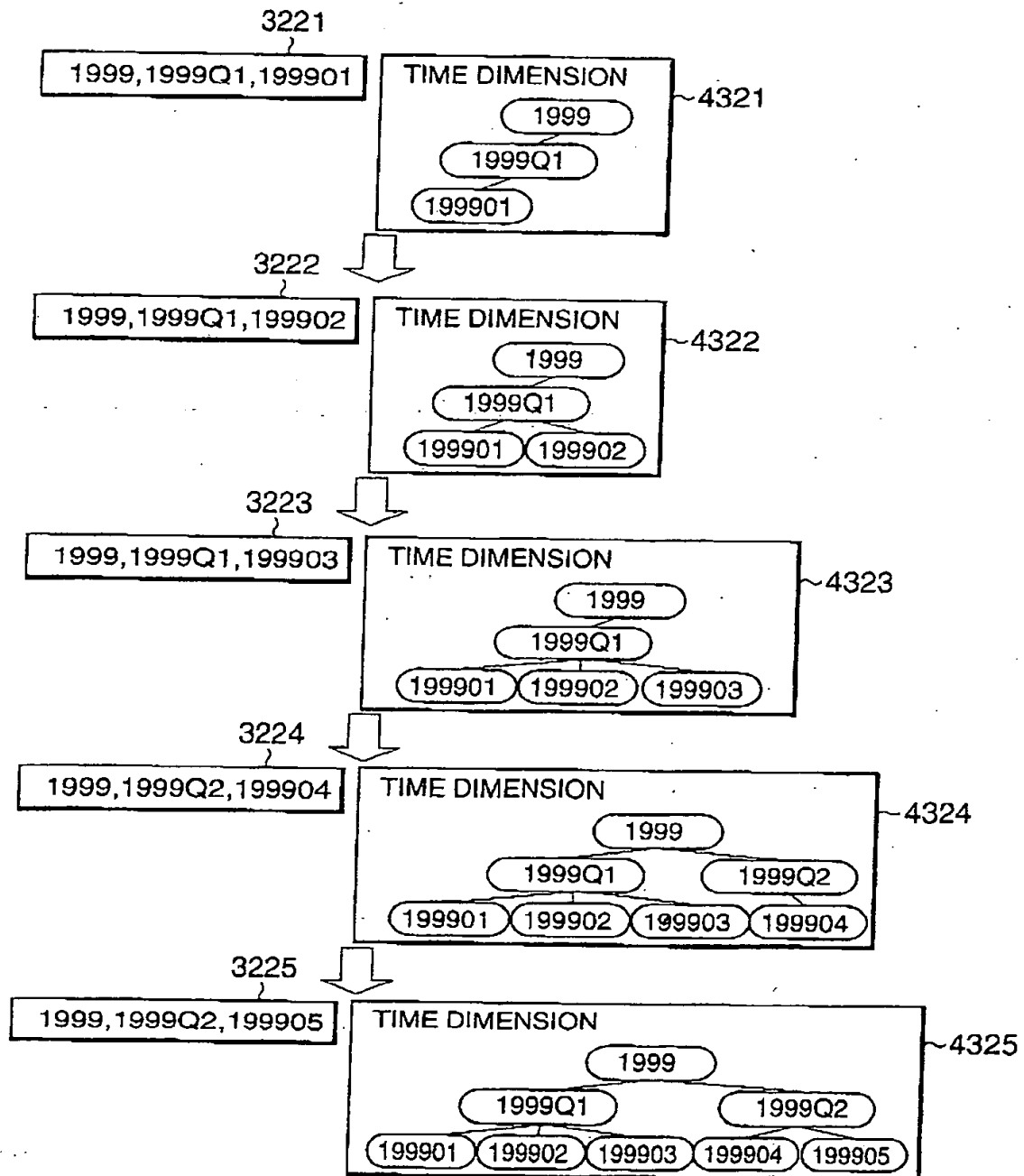


FIG.20 PRIOR ART

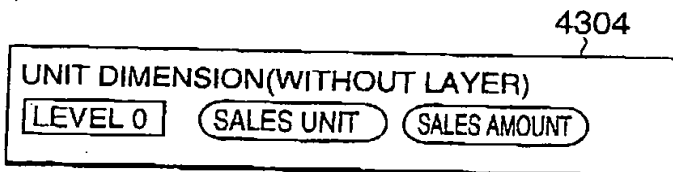
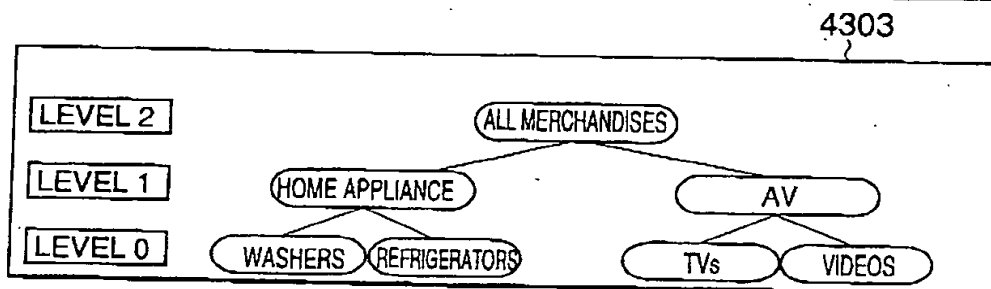
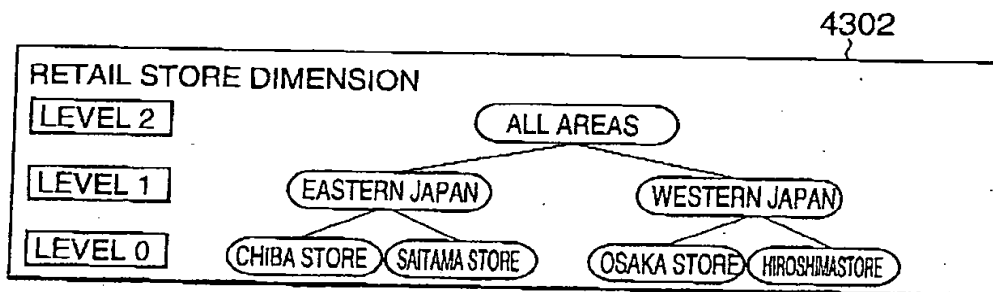
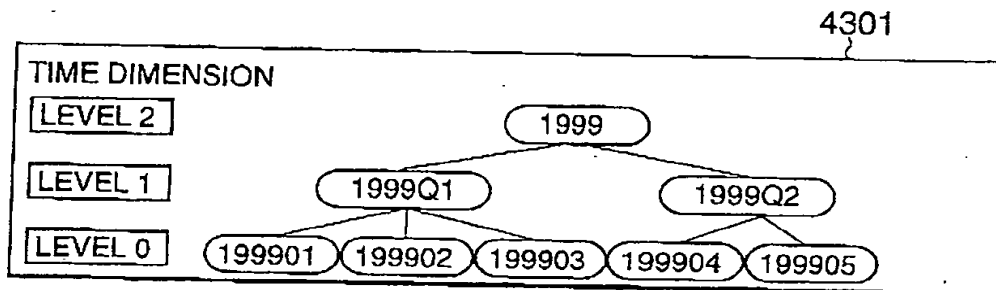


FIG.21 PRIOR ART

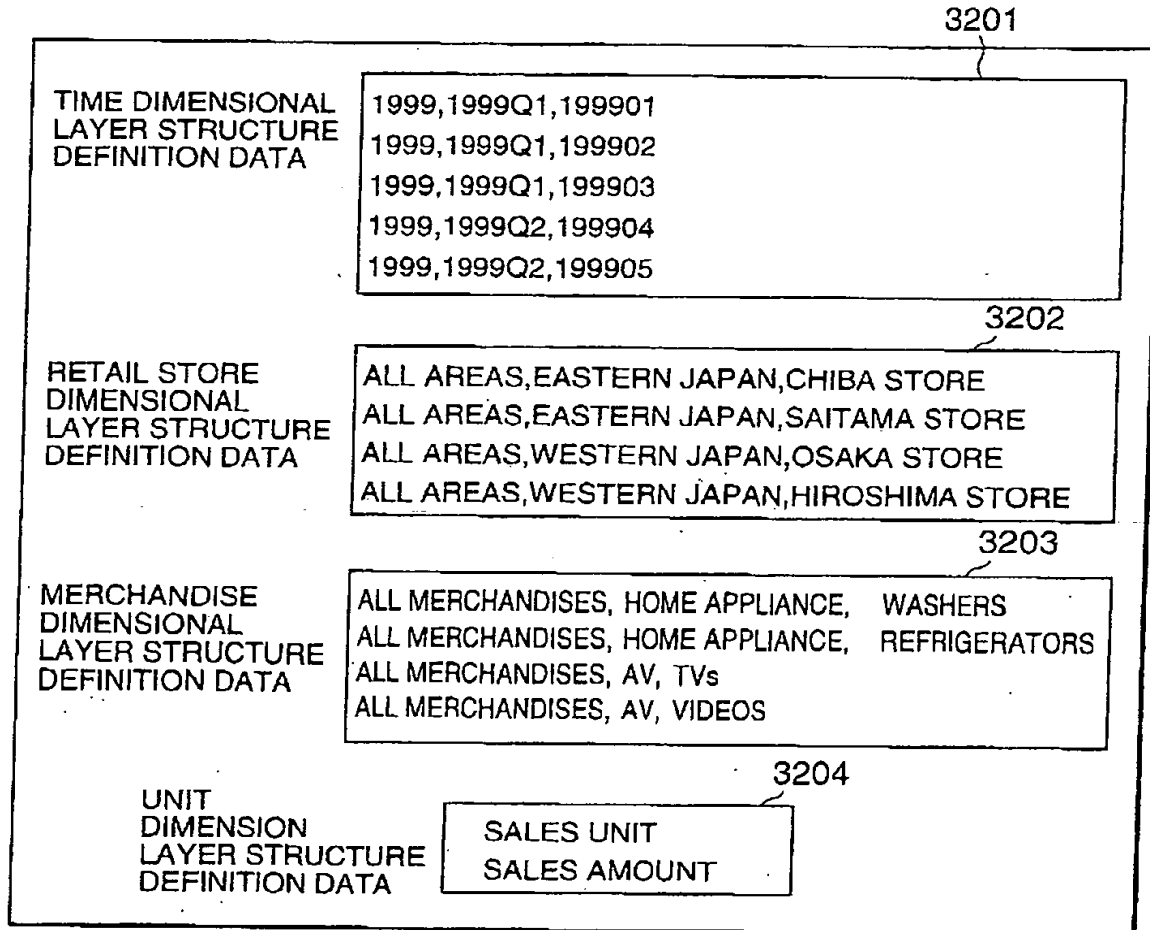


FIG. 21 PRIOR ART

FIG.22 PRIOR ART

3301

199901, SAITAMA STORE,	TVs,	22, 2420000
199901, OSAKA STORE,	REFRIGERATORS,	15, 1350000
199902, HIROSHIMA STORE,	VIDEOS,	42, 2940000
199902, SAITAMA STORE,	WASHERS,	21, 1680000
199903, CHIBA STORE,	VIDEOS,	33, 2310000
199904, HIROSHIMA STORE,	REFRIGERATORS,	18, 1620000
199905, CHIBA STORE,	TVs,	45, 4950000
⋮		

FIG.23 PRIOR ART

MERCHANDISE DIMENSION		TVS	
UNIT DIMENSION		SALES AMOUNT	
TIME DIMENSION			
1999			
RETAIL STORE DIMENSION		1999Q1	
		1999Q2	
		199903	199904
CHIBA STORE	110000	330000	770000
SAITAMA STORE	990000	990000	660000
EASTERN JAPAN	2090000	1320000	1430000
OSAKA STORE	1100000	1100000	1100000
HIROSHIMA STORE	330000	550000	1100000
WESTERN JAPAN	1430000	1650000	2200000
ALL AREAS	3520000	2970000	3630000
		199901	199902
		199903	199904
CHIBA STORE	1100000	3300000	7700000
SAITAMA STORE	9900000	9900000	6600000
EASTERN JAPAN	20900000	13200000	14300000
OSAKA STORE	11000000	11000000	11000000
HIROSHIMA STORE	3300000	5500000	11000000
WESTERN JAPAN	14300000	16500000	22000000
ALL AREAS	35200000	29700000	36300000

10015429-12101
FOETET-624500F

FIG.24 PRIOR ART

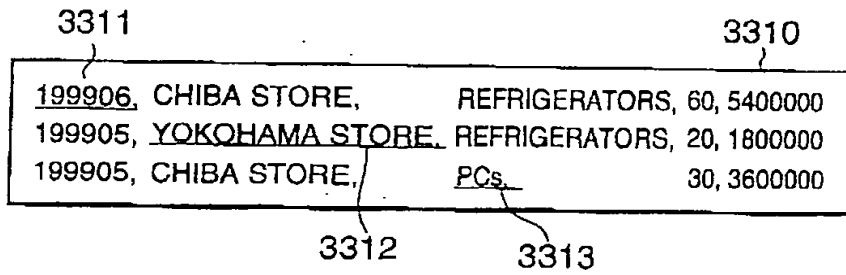
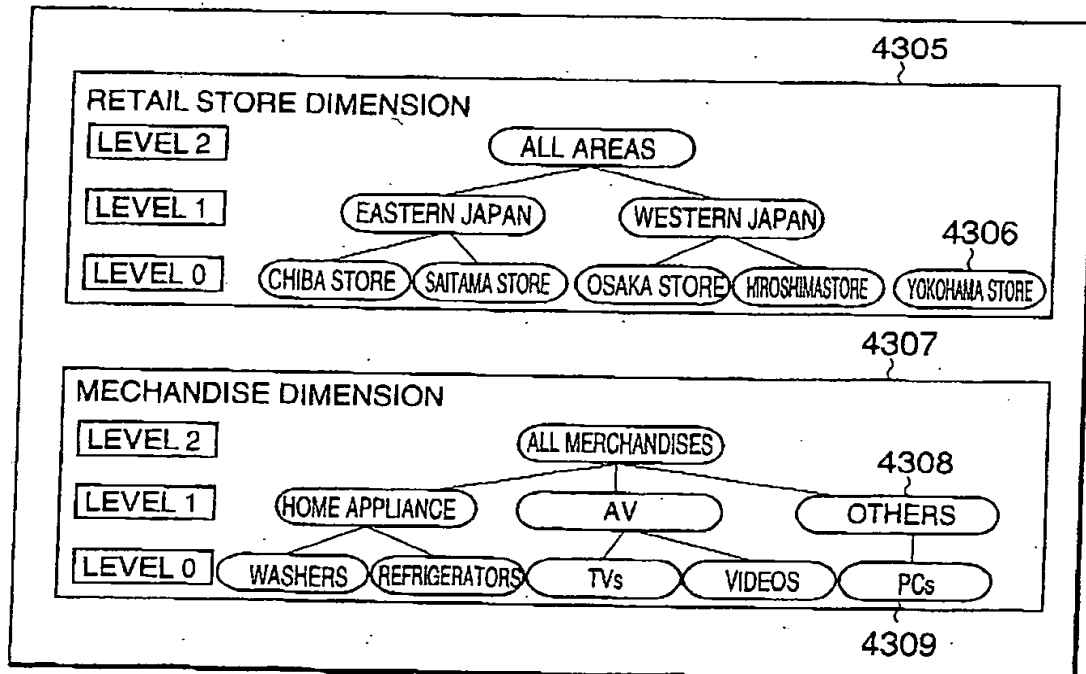


FIG.25 PRIOR ART



10015429.121301

FIG.26

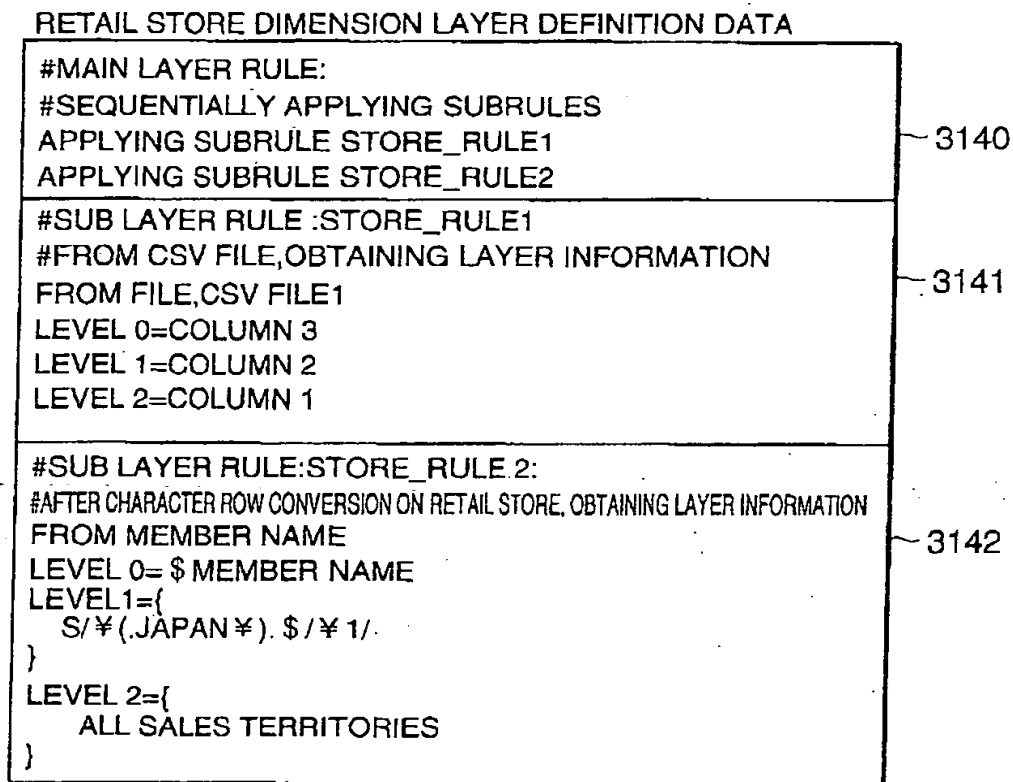


FIG.27

3340

199901, EASTERN JAPAN SAPPORO STORE,TVS,17,1870000
199902, HIROSHIMA STORE,VIDEOS, 42, 2940000
199903, EASTERN JAPAN SAPPORO STORE, REFRIGERATOR,15,1350000

FIG.28

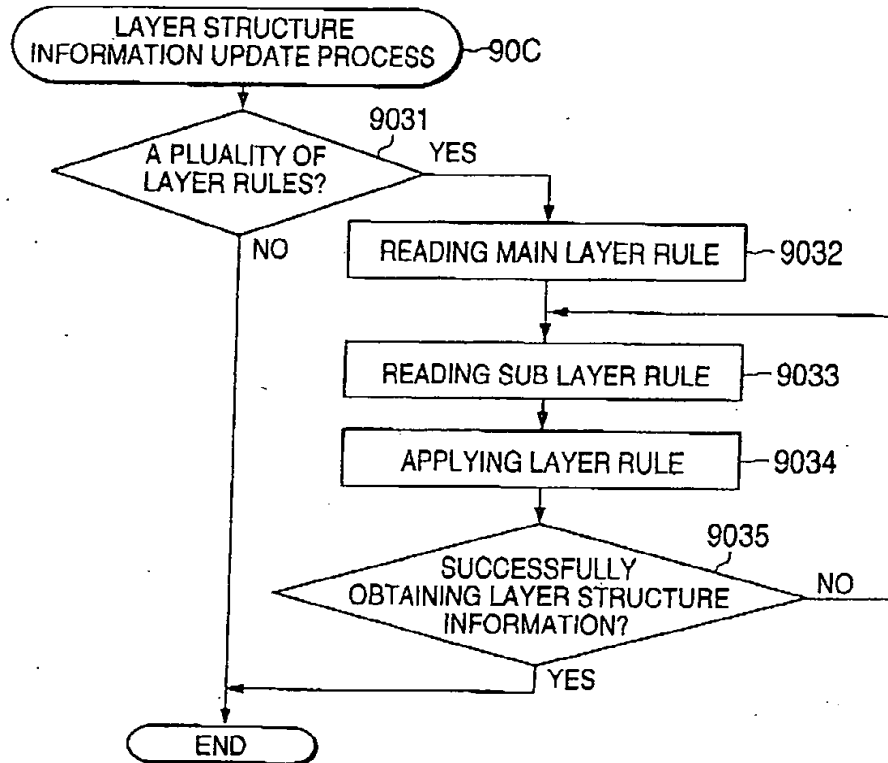


FIG.29

